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(71) Applicants:

- FUJITSU LIMITED  
Kawasaki-shi, Kanagawa 211 (JP)
- Mikoshiba, Shigeo  
Suginami-ku, Tokyo 168 (JP)

(72) Inventors:

- Mikoshiba, Shigeo  
Tokyo 168 (JP)
- Yamaguchi, Takahiro  
Tokyo 150 (JP)
- Toda, Kohsaku  
Takeno-gun, Kyoto 629-32 (JP)

- Shinoda, Tsutae,  
c/o Fujitsu, Ltd.  
Kawasaki-shi, Kanagawa 211 (JP)
- Kariya, Kyoji,  
c/o Fujitsu, Ltd.  
Kawasaki-shi, Kanagawa 211 (JP)
- Ueda, Toshio,  
c/o Fujitsu, Ltd.  
Kawasaki-shi, Kanagawa 211 (JP)
- Ishida, Katsuhiko,  
c/o Fujitsu, Ltd.  
Kawasaki-shi, Kanagawa 211 (JP)

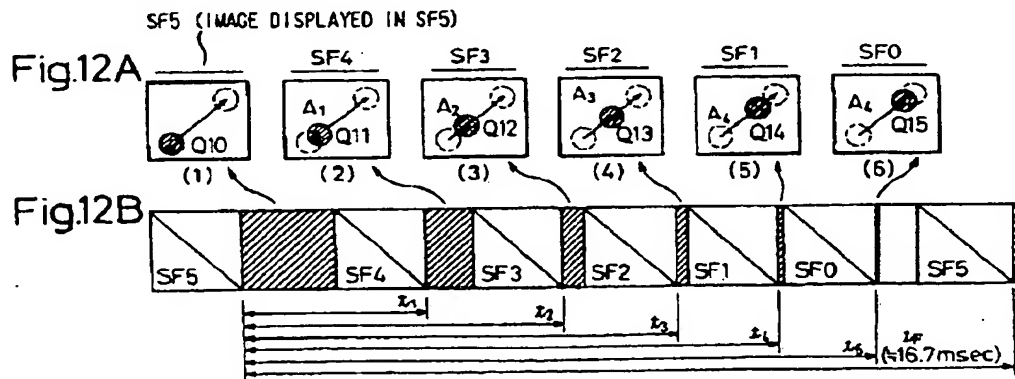
(74) Representative:

Godsill, John Kenneth et al  
Haseltine Lake & Co.,  
Imperial House,  
15-19 Kingsway  
London WC2B 6UD (GB)

## (54) Method of and apparatus for displaying halftone images

(57) A method displays a halftone image on a display unit by using a frame division technique that divides each frame of the halftone image into subframes each having a specific sustain discharge period to provide a specific intensity level. The method changes the position of the halftone image on the display unit from sub-

frame to subframe in each frame. The method is capable of displaying dynamic halftone images without intensity level disturbance, smears, or false colour contours.



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# EUROPEAN SEARCH REPORT

Application Number  
EP 96 30 5740

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	PATENT ABSTRACTS OF JAPAN vol. 96, no. 9, 30 September 1996 & JP 08 123355 A (FUJITSU GENERAL LTD.), 17 May 1996, * abstract *	1-4, 18	G09G3/28
A	---	6-11, 19	
A	PATENT ABSTRACTS OF JAPAN vol. 17, no. 498 (P-1609), 8 September 1993 & JP 05 127613 A (NIPPON HOSO KYOKAI), 25 May 1993, * abstract *	1-11, 18, 19	
X	---	12-17, 20, 28-37, 42 21-27, 38-41	
A	* abstract *		
	* page 1, line 29 - line 36 *		
	* page 2, line 12 - line 14 *		
	* page 4, line 24 - page 5, line 34 *		
	* page 7, line 1 - line 44 *		
	* page 8, line 9 - line 31; figures 1-6, 9-24 *		
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A	EP 0 444 962 A (HITACHI LTD.) * abstract *	38-41	
	* column 10, line 45 - column 11, line 45		
	* column 11, line 46 - column 12, line 26; figures 1-15 *		
	---		
A	PATENT ABSTRACTS OF JAPAN vol. 96, no. 6, 28 June 1996 & JP 08 054853 A (FUJITSU GENERAL LTD.), 27 February 1996, * abstract *	12-17	
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The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>14 January 1998</b>	Examiner <b>O'Reilly, D</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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